

## Calle Vista Location Map

Oroville, California



**Project Site**

This site is located within the Fernandez Land Grant in proximity to the SE 1/4 Section 10 T.19N R.3E, Near the intersection of Biggs Avenue and 18th Street.



**Gallaway**  
Consulting Inc.  
7 Sierra Nevada Court, Chico, CA 95928

0 0.25 0.5 0.75 1 Miles

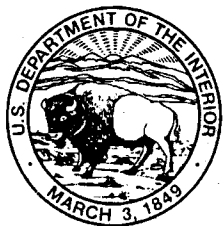
**Figure 1**





# Exhibit C - Wetland Acreage Table

Feature ID	Feature Type	Length (ft.)	Ave. width (ft.)	Area (sq. ft.)	Acres
SW1	Seasonal Wetland	N/A	N/A	11597.639	0.266
SW2	Seasonal Wetland	N/A	N/A	143.751	0.003
SW3	Seasonal Wetland	N/A	N/A	554.836	0.013
SW4	Seasonal Wetland	N/A	N/A	966.084	0.022
SW5	Seasonal Wetland	N/A	N/A	4742.178	0.109
SW6	Seasonal Wetland	N/A	N/A	1089.038	0.025
SW7	Seasonal Wetland	N/A	N/A	1500.908	0.034
DC1	Seasonal Wetland/ Drainage Cannal	N/A	N/A	12040.229	0.276
<b>Seasonal Wetland Totals =</b>				<b>32634.663</b>	<b>0.749</b>
VP1	Vernal Pool	N/A	N/A	541.326	0.012
VP2	Vernal Pool	N/A	N/A	392.464	0.009
VP3	Vernal Pool	N/A	N/A	646.213	0.015
VP4	Vernal Pool	N/A	N/A	772.421	0.018
VP5	Vernal Pool	N/A	N/A	690.104	0.016
<b>Vernal Pool Totals =</b>				<b>3042.527</b>	<b>0.070</b>
C1	Culvert	36.678	2	73.356	0.002
C2	Culvert	63.664	4	254.656	0.006
C3	Culvert	14.050	3	42.149	0.001
<b>Culvert Total Length =</b>		114.392	<b>Total Acreage =</b>		<b>370.161</b>
OW1	OWOTUS	1244.252	2	2488.504	0.057
OW2	OWOTUS	27.012	1	27.012	0.001
<b>Other Waters Total Length =</b>		1271.26	<b>Total Acreage =</b>		<b>2515.516</b>
<b>Totals of all Features =</b>		1385.66		<b>38562.868</b>	<b>0.885</b>



## United States Department of the Interior

### FISH AND WILDLIFE SERVICE

Sacramento Fish and Wildlife Office  
2800 Cottage Way, Room W-2605  
Sacramento, California 95825-1846



In reply refer to:  
1-1-05-F-0042

FEB 8 2005

FEB 11 2005

Mr. Thomas Cavanaugh  
Chief, Sacramento Valley Office  
U.S. Army Corps of Engineers  
1325 J Street  
Sacramento, California 95814-2922

Subject: Review of the Calle Vista, Unit 2 Subdivision Project (Corps # 200400358), Butte County, California, for Inclusion with the Vernal Pool Crustaceans Programmatic Consultation (Service file number 1-1-96-F-0001)

Dear Mr. Cavanaugh:

This letter responds to your January 6, 2005, request for initiation of formal consultation with the U.S. Fish and Wildlife Service (Service) on the proposed Calle Vista, Unit 2 Subdivision Project (proposed project). Although your U.S. Army Corps of Engineers (Corps) request did not include a request to append this project to the Service's *Programmatic Formal Endangered Species Act Consultation on Issuance of 404 Permits for Projects with Relatively Small Effects on Listed Vernal Pool Crustaceans within the Jurisdiction of the Sacramento Field Office, California* (Programmatic Consultation), the Service has decided that this proposed project can be appended to the Programmatic Consultation. The Service has reviewed the biological information submitted by your office describing the effects of the proposed project on the endangered vernal pool tadpole shrimp (*Lepidurus packardii*) and the threatened vernal pool fairy shrimp (*Branchinecta lynchi*). This response is in accordance with section 7 of the Endangered Species Act of 1973, as amended (16 U.S.C. 1531 et seq.) (Act).

The findings and recommendations in this formal consultation are based on: (1) the December, 2004, *Biological Assessment for the Calle Vista, Unit 2 Subdivision*, prepared by Gallaway Consulting; (2) your January 6, 2005, letter requesting formal consultation on the proposed project; (3) a December 9, 2004, site visit attended by Rick Kuyper of the Service and Christy Dawson and Jamison Watts of Gallaway Consulting; and (4) information in the Service files.

The proposed 27.9-acre project site is located in Oroville, Butte County. The proposed project involves the development of 92 single-family dwellings, a detention basin, roads, and associated infrastructure. There is approximately 0.375 acre of habitat for the federally-listed vernal pool crustaceans that would be directly affected through grading and construction of the proposed project. There are no indirect effects to vernal pool crustacean habitat associated with the proposed project.

The Service has determined that it is appropriate to append the proposed project to the Programmatic Consultation. This letter is an agreement by the Service to append the Proposed Project to the Programmatic Consultation and represents the Service's biological opinion on the effects of the proposed action. Conservation measures for projects appended to the Programmatic Consultation involve the use of creation and preservation banks in combination with on-site conservation options where such options are appropriate.

The Service reevaluates the effectiveness of the Programmatic Consultation at least every six (6) months to ensure that continued implementation will not result in unacceptable effects to the listed species.

The conservation measures identified in the Programmatic Consultation includes the following.

1. **Preservation component.** For every acre of habitat directly or indirectly affected, at least two vernal pool credits will be dedicated within a Service-approved ecosystem preservation bank, or, based on Service evaluation of site-specific conservation values, three acres of vernal pool habitat may be preserved on the project site or another non-bank site as approved by the Service.
2. **Creation component.** For every acre of habitat directly affected, at least one vernal pool creation credit will be dedicated within a Service-approved habitat creation bank, or, based on Service evaluation of site-specific conservation values, two acres of vernal pool habitat will be created and monitored on the project site or another non-bank site as approved by the Service.

The proposed project will result in direct effects to 0.375 acre of habitat for the two federally-listed vernal pool crustaceans. The project applicant has identified and proposes to purchase conservation credits at a Service-approved conservation bank or Service-approved fund. The applicant has proposed to purchase vernal pool preservation and creation credits prior to any site disturbance at a Service-approved conservation bank or fund account serving the proposed project site. Credits for both preservation and creation will be purchased prior to the fill of any vernal pool areas. The agreed upon conservation responsibilities of the applicant are as follows.

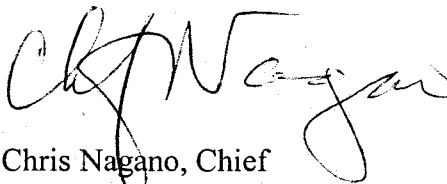
1. Prior to the start of construction, the applicant will purchase at least 0.75 vernal pool preservation credits to be dedicated within a Service-approved ecosystem vernal pool preservation bank. If a Service-approved bank is not available the project applicant may purchase credits from a Service-approved fund account serving the proposed project area ( $0.375 \text{ acre} \times 2 = 0.75 \text{ acre}$ ).

2. Prior to the start of construction, the applicant will purchase at least 0.375 vernal pool creation credits within a Service-approved vernal pool creation bank. If a Service-approved bank is not available the project applicant may purchase credits from a Service-approved fund account serving the proposed project area.

This concludes the Service's review of the proposed Calle Vista, Unit 2 Subdivision Project outlined in your request. As provided in 50 CFR 402.16, reinitiation of formal consultation is required where discretionary federal agency involvement or control over the action has been maintained (or is authorized by law) and if (1) the amount or extent of incidental take is exceeded, (2) new information reveals effects of the agency action that may affect listed species or critical habitat in a manner or to an extent not considered in this opinion, (3) the agency action is subsequently modified in a manner that causes an effect to the listed species or critical habitat that was not considered in this opinion, or (4) a new species is listed or critical habitat designated that may be affected by the action. In instances where the amount or extent of incidental take is exceeded, any operations causing such take must cease pending reinitiation.

If you have any questions regarding the proposed Calle Vista, Unit 2 Subdivision Project, please contact Rick Kuyper or the Acting Sacramento Valley Branch Chief at (916) 414-6645.

Sincerely,

A handwritten signature in black ink, appearing to read "Chris Nagano", written over a horizontal line.

Chris Nagano, Chief  
Endangered Species Division

cc:

Jenny Marr, California Department of Fish and Game, Chico, California  
Jim Copeland, Copeland Development Group, Placerville, California  
Christy Dawson, Gallaway Consulting, Chico, California

## Exhibit E - Subdivision Map

